Touchmonitor User Guide

1915L 19-inch LCD Desktop Touchmonitor

[Model ET1915L]

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User Guide

19-inch LCD Desktop

1915L Touchmonitor

Revision D

P/N E731143

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Table of Contents

Chapter 1

Introduction **1**

Product Description 1
Precautions 1
About the product 2

Chapter 2

Installation and Setup 3
Unpacking Your Touchmonitor 3
Touch Interface Connection 4
Product Overview 5
Main Unit 5
Rear View 5
Installing the Driver Software 6
Installing the Serial Touch Driver 7
Installing the Serial Touch Driver for Windows XP, Windows 2000, Me, 95/98 and NT 4.0 .. 7
Installing the Serial Touch Driver for MS-DOS and Windows 3.1 8
Installing the USB Touch Driver 9
Installing the USB Touch Driver for Windows XP, Windows 2000, Me, 95/98 and NT 4.0 .. 9
Installing USB Touch Driver for Acoustic Pulse Recognition Monitors 10

Chapter 3

Operation 11

About Touchmonitor Adjustments 11
Front Panel Controls 12
Controls and Adjustment 13
OSD Menu Functions 13
OSD Control Options 14
Preset Modes 15
Power Management System 16
Display Angle 16

Chapter 4

Troubleshooting **17**

Solutions to Common Problems 17

Appendix A

Native Resolution 19

Appendix B

Touchmonitor Safety 21
Care and Handling of Your Touchmonitor 22

Appendix C

Technical Specifications 23
Touchmonitor Specifications 24
19" LCD Touchmonitor (ET1915L) Dimensions 25

Regulatory Information 16
Warranty 29
Index 30

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CHAPTER

1

INTRODUCTION

Product Description

Your new touchmonitor combines the reliable performance of touch technology with the latest advances in LCD display design. This combination of features creates a natural flow of information between a user and your touchmonitor.

This LCD monitor incorporates 19” color active matrix thin-film-transistor (TFT) liquid crystal display to provide superior display performance. A maximum resolution of SXGA 1280 x 1024 is ideal for displaying graphics and images. Other outstanding designs that enhance this LCD monitor’s performance are Plug & Play compatibility, and OSD (On Screen Display) controls.

Precautions

Follow all warnings, precautions and maintenance as recommended in this user’s manual to maximize the life of your unit. See Appendix B for more information on touchmonitor safety.

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About the Product

Your LCD Desktop Touchmonitor is a 19” SXGA TFT color display with the following features:

- The internal microprocessor digitally controls auto-scanning, for horizontal scan frequencies between 31.5 KHz and 80 KHz, and vertical scan frequencies between 56.3 Hz and 75.0 Hz. In each frequency mode, the microprocessor-based circuitry allows the monitor to function at the precision-of a fixed frequency.
- High contrast color TFT LCD display supports resolutions up to SXGA 1280 x 1024. It is Compatable with VGA, SVGA, XGA, SXGA (non-interlaced) and most Macintosh compatible color video cards.
- Power management system conforms to VESA DPMS standard.
- Supports DDC1/2B for Plug & Play compatibility.
- Advanced OSD control for picture quality adjustment.
- Detachable stand for wall-mounting application.
- Integrated touch screen function.

For full Product Specifications refer to Appendix C.

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CHAPTER

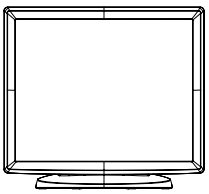
2

INSTALLATION AND SETUP

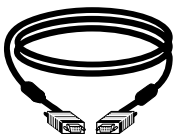
This chapter discusses how to install your LCD touchmonitor and how to install the driver software.

Unpacking Your Touchmonitor

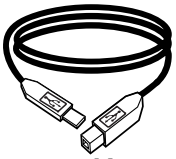
Check that the following 8 items are present and in good condition:



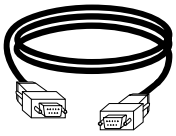
LCD monitor



VGA cable

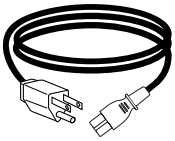


USB cable

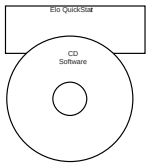


Serial Cable

European power cable



US/Canada Power cable



CD and Quick Install Guide

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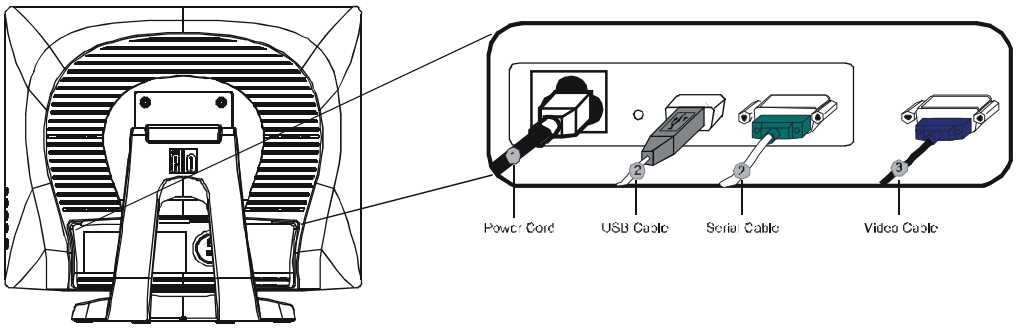
Touch Interface Connection

Note: Before connecting the cables to your touchmonitor and PC, be sure that the computer and touchmonitor are turned off.



1. Connect one end of the **power cord** to the monitor and the other end to the outlet.
2. Connect one end of either the **touchscreen serial(RS232) cabl**e or the touch screen USB cable (but not both) to the rear side of the computer and the other end to the LCD monitor. Tighten by turning the two thumb screws clockwise to ensure proper grounding(USB cable does not have thumb screws)
3. Connect one end of the **video cable** to the rear side of computer and the other to the LCD monitor. Tighten by turning the two thumb screws clockwise to ensure proper grounding.
4. Press the **power button** on the front panel to turn the monitor power on.

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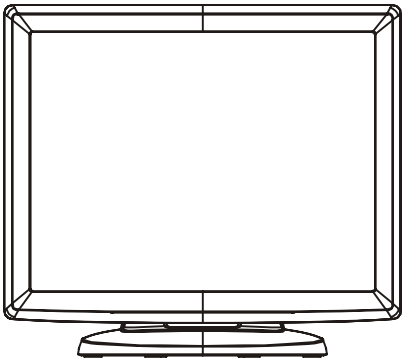
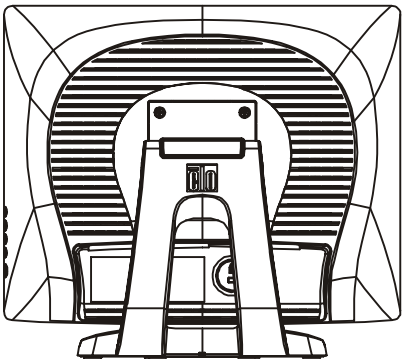
Product Overview

Main Unit



Rear View



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Installing the Driver Software

Elo TouchSystems provides driver software that allows your touchmonitor to work with your computer. Drivers are located on the enclosed CD-ROM.

Additional drivers and driver information for other operating systems are available on the Elo TouchSystems web site at www.elotouch.com.

Your Elo touchmonitor is plug-and-play compliant. Information on the video capabilities of your touchmonitor is sent to your video display adapter when Windows starts. If Windows detects your touchmonitor, follow the instructions on the screen to install a generic plug-and-play monitor.

Refer to the appropriate following section for driver installation instructions.

Depending upon whether you connected the serial communication cable or the USB communication cable, you should install only the serial driver or the USB driver.

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Installing the Serial Touch Driver (not applicable to Acoustic Pulse Recognition monitors)

Installing the Serial Touch Driver for Windows XP, Windows 2000, Me, 95/98 and NT4.0

NOTE: For Windows 2000 and NT 4.0 you must have administrator access rights to install the driver.

1 Insert the Elo CD-ROM in your computer's CD-ROM drive.
2 If the AutoStart feature for your CD-ROM drive is active, the system automatically detects the CD and starts the setup program.
3 Follow the directions on the screen to complete the driver setup for your version of Windows.
4 If the AutoStart feature is not active:
5 Click **Start > Run**.
6 Click the **Browse** button to locate the EloCd.exe program on the CD-ROM.
7 Click **Open**, then **OK** to run EloCd.exe.
8 Follow the directions on the screen to complete the driver setup for your version of Windows.

To install Windows 2000 and Windows XP, you must use the "update driver" method; you will not find a setup.exe file within the download.

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Installing the Serial Touch Driver for MS-DOS and Windows 3.1 (not applicable to Acoustic Pulse Recognition monitors)

You must have a DOS mouse driver (MOUSE.COM) installed for your mouse if you wish to continue using your mouse along with your touchmonitor in DOS.

To install Windows 3.x and MS-DOS from Windows 95/98, follow the directions below:

1 Insert the CD-ROM in your computer's CD-ROM drive.
2 From DOS, type d:\EloDos_W31 to change to the correct directory on the CD-ROM (your CD- ROM drive may be mapped to a different drive letter).
3 Type install and press **Enter** to start the installation.
4 Align the touchscreen.

You must have already completed Steps 1 and 2 before proceeding.

To run the INSTALL program:

1 Type INSTALL at the DOS prompt in the directory containing the driver install files.
2 INSTALL asks you to select the software to install. Then choose d:\EloDos_W31 from the displayed list.
3 INSTALL also asks you for the paths to use during installation, or you may use its defaults. INSTALL creates directories as necessary, and warns you if they exist.

If you are updating your software, you may wish to specify the paths containing the earlier versions, and overwrite the obsolete files. All executable programs are upward compatible. For a list of differences from each previous version of the drivers, be sure to select "Differences from Previous Versions" during the installation process.

INSTALL updates your AUTOEXEC.BAT file with the drivers you select. INSTALL makes a copy of your original AUTOEXEC.BAT file, called AUTOEXEC.OLD. If you already have Elo driver commands in your AUTOEXEC.BAT file, they will be commented out.

When INSTALL is finished, it leaves a file called GO.BAT in the subdirectory you specified. GO loads the touchscreen driver, runs the calibration program ELOCALIB, and gives you some final instructions.

If you are using Windows 3.1, you will also calibrate the touchscreen within Windows 3.1 with the Touchscreen Control Panel.

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Installing the USB Touch Driver (not applicable to Acoustic Pulse Recognition monitors)

Installing the USB Touch Driver for Windows XP, Windows 2000, Me, 95/98 and NT4.0

1 Insert the Elo CD-ROM in your computer's CD-ROM drive.
If Windows 98, Windows Me or Windows 2000 starts the Add New Hardware Wizard:
2 Choose **Next**. Select "Search for the best driver for your device (Recommended)" and choose **Next**.
3 When a list of search locations is displayed, place a checkmark on "Specify a location" and use **Browse** to select the \EloUSB directory on the Elo CD-ROM.
4 Choose **Next**. Once the Elo USB touchscreen driver has been detected, choose **Next** again.
5 You will see several files being copied. Insert your Windows 98 CD if prompted. Choose **Finish**.

If Windows 98, Windows Me or Windows 2000 does not start the Add New Hardware Wizard:

NOTE: For Windows 2000 you must have administrator access rights to install the driver.

1 Insert the Elo CD-ROM in your computer's CD-ROM drive. If the AutoStart feature for your CD-ROM drive is active, the system automatically detects the CD and starts the setup program.
2 Follow the directions on the screen to complete the driver setup for your version of Windows.

If the AutoStart feature is not active:
1 Click **Start > Run**.
2 Click the **Browse** button to locate the EloCd.exe program on the CD-ROM.
3 Click **Open**, then **OK** to run EloCd.exe.
4 Follow the directions on the screen to complete the driver setup for your version of Windows.

To install Windows 2000 and Windows XP, you must use the "update driver" method; you will not find a setup.exe file within the download.

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Installing USB Touch Driver for Acoustic Pulse Recognition Monitors

Insert the ELO APR CD-ROM in your computer's CD-ROM driver.

Follow the directions on the screen to complete the APR 2.0 driver setup.

1 Click **Start** > **Run.**

2 Click the **Browse** button to locate the SW600117.exe program on the CD-ROM.

3 Click **Open**, then **OK** to run SW600117.exe.

4 Follow the directions on the screen to complete the driver setup.

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CHAPTER

3

OPERATION

About Touchmonitor Adjustments

Most likely there will be no need to be adjust your touchmonitor. However, variations in video output and application may require adjustments to optimize display quality.

For best performance, your touchmonitor should be operating in native resolution, that is 1280 x 1024 at 80k-75 Hz. Use the Display control panel in Windows to choose 1280 x 1024 resolution.

Operating in other resolutions will degrade video performance. For further information, please refer to Appendix A.

All adjustments you make to the controls are automatically memorized. This feature saves you from having to reset your choices every time you unplug or power your touchmonitor off and on. If there is a power failure, your touchmonitor settings will not default to the factory specifications.

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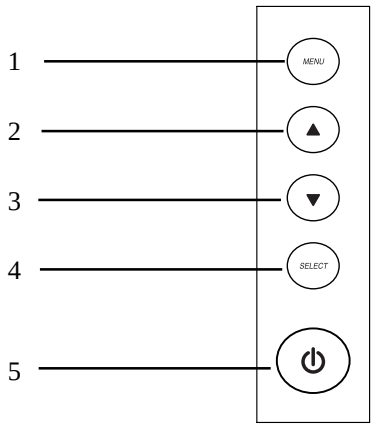
Front Panel Controls



	Control	Function
1	**Menu/Exit**	Display/Exits the OSD menus.
2	▲	1. Enter contrast of the OSD. 2. Increase value of the adjustment item. 3. Select item.
3	▼	1. Enter brightness adjustment. 2. Decrease value of the adjustment item. 3. Select item counter-clockwise.
4	**Select**	Selects the adjustment items from the OSD menus.
5	**Power Switch**	Switches the power of the monitor.

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Controls and Adjustment

OSD Menu Functions

To Display and Select the OSD Functions:

1 Press the Menu key to activate the OSD menu.

2 Use ▲ or ▼ to move clockwise or counterclockwise through the menu. Press the Enter key, the parameter will be highlighted when selected.

3 To quit the OSD screen at any time during the operation, press the Menu key. If no keys are pressed for a short time period, the OSD automatically disappears.

NOTE: The OSD screen will disappear if no input activities are detected from 45 seconds to 255 seconds, depending on the setting set on the osd of the monitor. The monitor defaults is 45 seconds.

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OSD Control Options

Control	Description
Brightness	Increases or decreases brightness.
Contrast	Increases or decreases contrast.
H-Position	Moves the screen left or right.
V-Position	Moves the screen up or down.
Phase	Increases or decreases the snow noise of the image after auto adjustment is made.
Clock	The dot clock is fine-adjusted after auto adjust.
Sharpness	Adjusts sharpness of video.
OSD H-Position	Moves the OSD position horizontally on the screen. When the ▲ button is pressed, the OSD control menu will move to the right side of the screen. Likewise, when the ▼ button is pressed, the OSD control menu will move to the left side.
OSD V-Position	Moves the OSD position vertically on the screen. When the ▲ button is pressed, the OSD control menu will move to the top side of the screen. Likewise, when the ▼ button is pressed, the OSD control menu will move to the lower side.
OSD Time	Adjusts the amount of the OSD menu is displayed.
Color Balance	Press ▲ or ▼ to select 9300, 6500, 5500, 7500 and USER. Only when selecting USER can you make adjustments to the R/G/B content. Press Enter to restore to factory default setting.
Auto-Adjust	Press Auto to enable this function. The Auto-Adjust will automatically adjust V-Position, H-Position, Clock and Clock-Phase.
Recall Defaults	Returns the monitor to its default settings.
OSD Language	Select from English, French, German ,Spanish and Japanese.
Information Description	Indicates the current resolution, H-Frequency and V-Frequency.

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Preset Modes

To reduce the need for adjustment for different modes, the monitor has default setting modes that are most commonly used as given in the table below. If any of these display modes are detected, the monitor automatically adjusts the picture size and centering. When none of the mode is matched, the user can store their preferred modes in the user modes. The monitor is capable of storing up to 7 user modes. The only condition to store as a user mode is the new display information must have 1 KHz difference for horizontal frequency or 1 Hz for vertical frequency or the sync signal polarities are different from the default modes.

Mode	Resolution	H. Freq. (KHz)	Band Width (MHz)	H	V
1	VGA 640x350 70 Hz	31.47	28.322	+	-
2	VGA 720x400 70 Hz	31.47	28.322	-	+
3	VGA 640x480 60 Hz	31.47	25.175	-	-
4	MAC 640x480 66 Hz	35.00	32.24	-	-
5	VESA 640x480 72 Hz	37.86	31.5	-	-
6	VESA 640x480 75 Hz	37.50	31.5	-	-
7	VESA 800x600 56 Hz	35.16	36	+	+
8	VESA 800x600 60 Hz	37.88	40	+	+
9	VESA 800x600 75 Hz	46.88	49.5	+	+
10	VESA 800x600 72 Hz	48.08	50	+	+
11	MAC 832x624 75 Hz	49.72	57.283	-	-
12	VESA 1024x768 60 Hz	48.36	65	-	-
13	SUN 1024x768 65 Hz	52.45	70.49	-	-
14	VESA 1024x768 70 Hz	56.48	75	-	-
15	VESA 1024x768 75 Hz	60.02	78.75	+	+
16	SXGA 1280x1024 60 Hz	64	108	+	+
17	SXGA 1280x1024 75 Hz	80	135	+	+
18	SXGA 1152x864 75 Hz	67.5	108	+	+
19	SXGA 1280x960 60 Hz	60	108	+	+

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Power Management System

The monitor is equipped with the power management function which automatically reduces the power consumption when not in use.

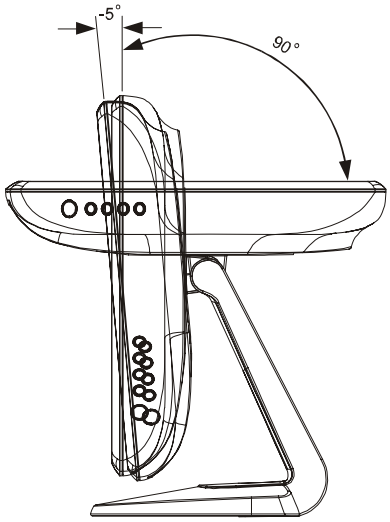
Mode	Power Consumption
On	<50W
Sleep	<4W
Off	<2W

We recommend switching the monitor off when it is not in use for a long time.

NOTE: The monitor automatically goes through the Power Management System (PMS) steps when it is idle. To release the monitor from PMS state, press any key on the keyboard or move mouse.

Display Angle

For viewing clarity, you can tilt the LCD forward (up to -5 degrees) or backward (up to 90 degrees.)



CAUTION In order to protect the LCD, be sure to hold the base when adjusting the LCD, and take care **not** to touch the screen.

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CHAPTER

4

TROUBLESHOOTING

If you are experiencing trouble with your touchmonitor, refer to the following table. If the problem persists, please contact your local dealer or our service center.

Solutions to Common Problems

Problem	Suggestion(s)
The monitor does not respond after you turn on the system.	Check that the monitor's Power Switch is on. Turn off the power and check the monitor's power cord and signal cable for proper connection.
Characters on the screen are dim	Refer to the About Touchmonitor Adjustments section to adjust the brightness.
The screen is blank	During operation, the monitor screen may automatically turn off as a result of the Power Saving feature. Press any key to see if the screen reappears. Refer to the About Touchmonitor Adjustments section to adjust the brightness.
Screen flashes when initialized	Turn the monitor off then turn it on again.
"Out of Range" display	Check to see if the resolution of your computer is higher than that of the LCD display. Reconfigure the resolution of your computer to make it less than or equal to 1280 x 1024. See Appendix A for more information on resolution.
Touch doesn't work	Make sure the touch cable is securely attached at both ends.

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A

NATIVE RESOLUTION

The native resolution of a monitor is the resolution level at which the LCD panel is designed to perform best. For the LCD touchmonitor, the native resolution is 1280 x 1024 for the 19 inch size. In almost all cases, screen images look best when viewed at their native resolution. You can lower the resolution setting of a monitor but not increase it.

Input Video	19" LCD
640 x 480 (VGA)	Transforms input format to 1280 x 1024
800 x 600 (SVGA)	Transforms input format to 1280 x 1024
1024 x 768 (XGA)	Transforms input format to 1280 x 1024
1280 x 1024 (SXGA)	Displays in native Resolution

The native resolution of an LCD is the actual number of pixels horizontally in the LCD by the number of pixels vertically in the LCD. LCD resolution is usually represented by the following symbols:

VGA	**640 x 480**
SVGA	**800 x 600**
XGA	**1024 x 768**
SXGA	**1280 x 1024**
UXGA	**1600 x 1200**

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As an example, a XGA resolution LCD panel has 1024 pixels horizontally by 768 pixels vertically. Input video is also represented by the same terms. SXGA input video has a format of 1280 pixels horizontally by 1024 pixels vertically. When the input pixels contained in the video input format match the native resolution of the panel, there is a one to one correspondence of mapping of input video pixels to LCD pixels. As an example, the pixel in column 45 and row 26 of the input video is in column 45 and row 26 of the LCD. For the case when the input video is at a lower resolution than the native resolution of the LCD, the direct correspondence between the video pixels and the LCD pixels is lost. The LCD controller can compute the correspondence between video pixels and LCD pixels using algorithms contained on its controller. The accuracy of the algorithms determines the fidelity of conversion of video pixels to LCD pixels. Poor fidelity conversion can result in artifacts in the LCD displayed image such as varying width characters.

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B

TOUCHMONITOR SAFETY

This manual contains information that is important for the proper setup and maintenance of your touchmonitor. Before setting up and powering on your new touchmonitor, read through this manual, especially Chapter 2 (Installation), and Chapter 3 (Operation).

1 To reduce the risk of electric shock, follow all safety notices and never open the touchmonitor case.
2 Turn off the product before cleaning.
3 Your new touchmonitor is equipped with a 3-wire, grounding power cord. The power cord plug will only fit into a grounded outlet. Do not attempt to fit the plug into an outlet that has not been configured for this purpose. Do not use a damaged power cord. Use only the power cord that comes with your touchmonitor. Use of an unauthorized power cord may invalidate your warranty.
4 The slots located on the sides and top of the touchmonitor case are for ventilation. Do not block or insert anything inside the ventilation slots.
5 It is important that your touchmonitor remains dry. Do not pour liquid into or onto your touchmonitor. If your touchmonitor becomes wet do not attempt to repair it yourself.

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Care and Handling of Your Touchmonitor

The following tips will help keep your touchmonitor functioning at the optimal level.

- To avoid risk of electric shock, do not disassemble the brick supply or display unit cabinet. The unit is not user serviceable. Remember to unplug the display unit from the power outlet before cleaning.
- Do not use alcohol (methyl, ethyl or isopropyl) or any strong solvent. Do not use thinner or benzene, abrasive cleaners or compressed air.
- To clean the display unit cabinet, use a cloth lightly dampened with a mild detergent.
- Avoid getting liquids inside your touchmonitor. If liquid does get inside, have a qualified service technician check it before you power it on again.
- Do not wipe the screen with anything abrasive that could scratch the surface.
- To clean the touchscreen, use window or glass cleaner. Put the cleaner on a clean cloth and wipe the touchscreen. Never apply the cleaner directly on the touchscreen.

Warning

This product consists of devices that may contain mercury, which must be recycled or disposed of in accordance with local, state, or federal laws. (Within this system, the backlight lamps in the monitor display contain mercury.)

Waste Electrical and Electronic Equipment (WEEE) Directive

In the European Union, this label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

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APPENDIX

C

TECHNICAL SPECIFICATIONS

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Touchmonitor Specifications

Model		ET1915L
LCD Display		19” TFT Active Matrix Panel
Display Size		376.32(H) x 301.06(V) mm
Pixel Pitch		0.294(H) x 0.294(V) mm
Display Mode		VGA 640 x 350 (70Hz)
		VGA 720 x 400 (70Hz)
		VGA 640 x 480 (60 / 72/ 75Hz)
		SVGA 800 x 600 (56 / 60 / 72/ 75Hz)
		XGA 1024 x 768 (60 / 70 / 75Hz)
Max. Resolution		SXGA 1280 x 1024 (60 / 70 / 75Hz)
		SXGA (1280 x 1024) at 75Hz maximum
Contrast Ratio		Typical: 800:1; Min: 500:1
Brightness		IntelliTouch: typical 270cd/m^2; min. 204cd/m^2
		AccuTouch: typical 240cd/m^2; min. 180cd/m^2
		Non-Touch: typical 300cd/m^2 ; min. 240cd/m^2
		Acoustic Pulse Recognition: typical 270cd/m^2 ; min. 204cd/m^2
Response Time (Rise+Fall)		5 ms typical; 10ms max.
Display Color		16.7M
Viewing Angle	Vertical	CR⩾10, 80 deg (Up) / 80 deg (Down) typical
		70 deg (Up) / 70 deg (Down) min.
	Horizontal	CR⩾10, 80 deg (Left) / 80 deg (Right) typical
		70 deg (Left) / 70 deg (Right) min.
Input Signal	Video	R.G.B. Analog 0.7Vp-p, 75 ohm
	Sync	TTL Positive or Negative
Signal Connector		Mini D-Sub 15 pin
Front Control		Menu,▲ ,▼ , Select, Power
OSD		Contrast, Brightness, H-Position, V-Position, Sharpness
		Color Temperature, Phase, Clock, OSD Time, Recall,
		Language: English, French, German, Spanish, Japanese
Plug & Play		DDC1 / 2B
Touch Panel (optional)		IntelliTouch, AccuTouch, APR
Power Adapter		Input AC 100-240V, 50/60Hz
Operating Conditions	Temperature	0^{o}C ~ 40^{o}C (32^{o}F ~ 104^{o}F)
	Humidity	20% ~ 80% (No Condensation)
	Altitude	To 12,000 Feet
Storage Conditions	Temperature	-20^{o}C ~ 60^{o}C (-4^{o}F ~ 140^{o}F)
	Humidity	10% ~ 90% (No Condensation)
Dimensions (HxWxD)		429 x 390 x 212mm
Weight (Net)		8.4Kg
Certifications		UL, C-UL, FCC-B, CE, VCCI, C-Tick, MPRII , TUV,
		EK, MIC

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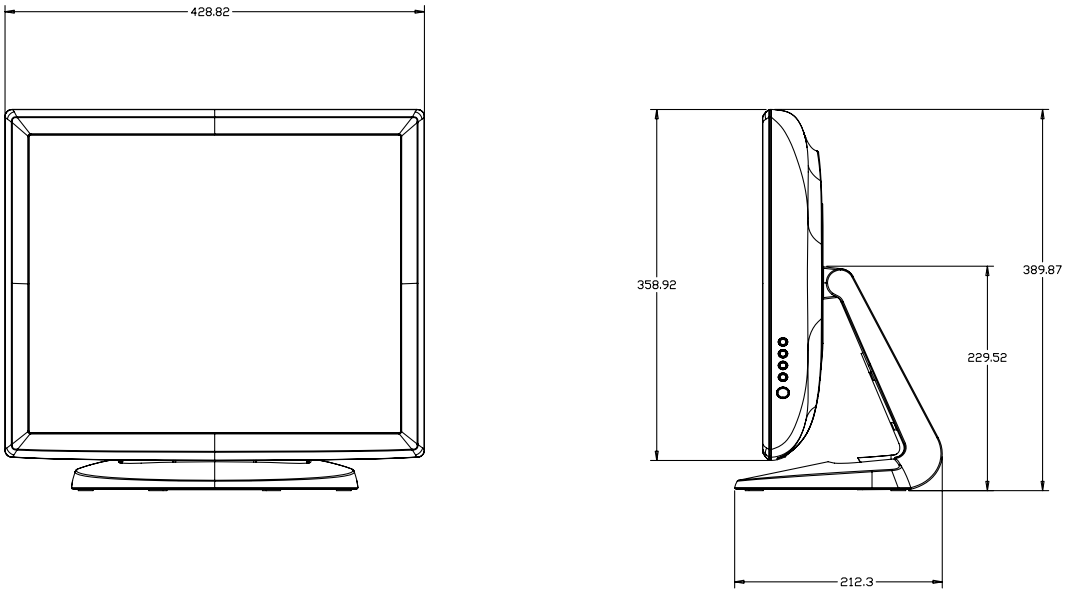
19” LCD Touchmonitor (ET1915L) Dimensions



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REGULATORY INFORMATION

I. Electrical Safety Information:

A) Compliance is required with respect to the voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified herein will likely result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.

B) There are no operator serviceable parts inside this equipment. There are hazardous voltages generated by this equipment which constitute a safety hazard. Service should be provided only by a qualified service technician.

C) This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.

1) Do not substitute the cord with other than the provided approved type. Under no circumstances use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.

2) The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.

3) Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment to mains power.

II. Emissions and Immunity Information

A) Notice to Users in the United States: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

B) Notice to Users in Canada: This equipment complies with the Class B limits for radio noise emissions from digital apparatus as established by the Radio Interference Regulations of Industrie Canada.

C) Notice to Users in the European Union: Use only the provided power cords and interconnecting cabling provided with the equipment. Substitution of provided cords and cabling may compromise electrical safety or CE Mark Certification for emissions or immunity as required by the following standards:

This Information Technology Equipment (ITE) is required to have a CE Mark on the manufacturer's label which means that the equipment has been tested to the following Directives and Standards: This equipment has been tested to the requirements for the CE Mark as required by EMC Directive 89/336/EEC indicated in European Standard EN 55022 Class B and the Low Volt age Directive 73/23/EEC as indicated in European Standard EN 60950.

D) General Information to all Users: This equipment generates, uses and can radiate radio frequency energy. If not installed and used according to this manual the equipment may cause

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interference with radio and television communications. There is, however, no guarantee that interference will not occur in any particular installation due to site-specific factors.

1) In order to meet emission and immunity requirements, the user must observe the following:

a) Use only the provided I/O cables to connect this digital device with any computer.

b) To ensure compliance, use only the provided manufacturer's approved line cord.

c) The user is cautioned that changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2) If this equipment appears to cause interference with radio or television reception, or any other device:

a) Verify as an emission source by turning the equipment off and on.

b) If you determine that this equipment is causing the interference, try to correct the interference by using one or more of the following measures:

i) Move the digital device away from the affected receiver.

ii) Reposition (turn) the digital device with respect to the affected receiver.

iii) Reorient the affected receiver's antenna.

iv) Plug the digital device into a different AC outlet so the digital device and the receiver are on different branch circuits.

v) Disconnect and remove any I/O cables that the digital device does not use. (Unterminated I/O cables are a potential source of high RF emission levels.)

vi) Plug the digital device into only a grounded outlet receptacle. Do not use AC adapter plugs. (Removing or cutting the line cord ground may increase RF emission levels and may also present a lethal shock hazard to the user.)

If you need additional help, consult your dealer, manufacturer, or an experienced radio or television technician.

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III. Agency Certifications

The following certifications have been issued for this monitor:

- North America/Worldwide: USA UL, Canada cUL
- EMEA: Germany TUV, Sweden MPRII
- Asia: Australia C-Tick, China CCC, Japan VCCI, Korea MIC
  Taiwan BSMI
- Elo Declarations: RoHS, China RoHS, WEEE, IMERC, CE, FCC/ICES Class B

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WARRANTY

Except as otherwise stated herein or in an order acknowledgment delivered to Buyer, Seller warrants to Buyer that the Product shall be free of defects in materials and workmanship. The warranty for the touchmonitors and components of the product is 3 (three) years.

Seller makes no warranty regarding the model life of components. Seller's suppliers may at any time and from time to time make changes in the components delivered as Products or components.

Buyer shall notify Seller in writing promptly (and in no case later than thirty (30) days after discovery) of the failure of any Product to conform to the warranty set forth above; shall describe in commercially reasonable detail in such notice the symptoms associated with such failure; and shall provide to Seller the opportunity to inspect such Products as installed, if possible. The notice must be received by Seller during the Warranty Period for such product, unless otherwise directed in writing by the Seller. Within thirty (30) days after submitting such notice, Buyer shall package the allegedly defective Product in its original shipping carton(s) or a functional equivalent and shall ship to Seller at Buyer's expense and risk.

Within a reasonable time after receipt of the allegedly defective Product and verification by Seller that the Product fails to meet the warranty set forth above, Seller shall correct such failure by, at Seller's options, either (i) modifying or repairing the Product or (ii) replacing the Product. Such modification, repair, or replacement and the return shipment of the Product with minimum insurance to Buyer shall be at Seller's expense. Buyer shall bear the risk of loss or damage in transit, and may insure the Product. Buyer shall reimburse Seller for transportation cost incurred for Product returned but not found by Seller to be defective. Modification or repair, of Products may, at Seller's option, take place either at Seller's facilities or at Buyer's premises. If Seller is unable to modify, repair, or replace a Product to conform to the warranty set forth above, then Seller shall, at Seller's option, either refund to Buyer or credit to Buyer's account the purchase price of the Product less depreciation calculated on a straight-line basis over Seller's stated Warranty Period.

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INDEX

A

About the Product, 2
About Touchmonitor Adjustments, 17

B

Brightness, 17

C

Care and Handling of Your Touchmonitor, 22
Certifications, 24
Contrast Ratio, 24
Controls and Adjustment, 13

D

Dimensions (HxWxD), 25
Display Angle, 16
Display Color, 24
Display Mode, 24
Display Size, 24

F

Front Control, 24
Front Panel Controls, 12

I

Input Signal, 24
Installing USB Touch Driver for Acoustic Pulse Recognition , 10
Installation and Setup, 3
Installing the Driver Software, 6
Installing the Serial Touch Driver, 7
Installing the Serial Touch Driver for MS-DOS and Windows 3.1, 8
Installing the Serial Touch Driver for Windows XP, Windows 2000, Me, 95/98 and NT 4.0, 7
Installing the USB Touch Driver, 9
Installing the USB Touch Driver for Windows XP, Windows 2000, Me, 95/98 and NT 4.0, 7

M

Main Unit, 5
Max. Resolution, 24

N

Native Resolution, 19

O

Operating Conditions, 24
OSD, 24
OSD Control Options, 14
OSD Menu Functions, 13

P

Pixel Pitch, 24
Plug & Play, 24
Power Adapter, 24
Power Management System, 16
Precautions, 1
Product Description, 1
Product Overview, 5

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R
Rear View, 5
Response Time, 24

S
Signal Connector, 24
Solutions to Common Problems, 17
Storage Conditions, 24
SVGA, 24
SXGA, 24

T
Technical Specifications, 23
Touch Interface Connection, 4
Touch Panel (optional), 24
Touchmonitor Safety, 21
Touchmonitor Specifications, 23
Troubleshooting, 17

U
Unpacking Your Touchmonitor, 3
UXGA, 19

V
VGA, 24
Viewing Angle, 24

W
Warranty, 29
Weight (Net), 24

X
XGA, 24

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